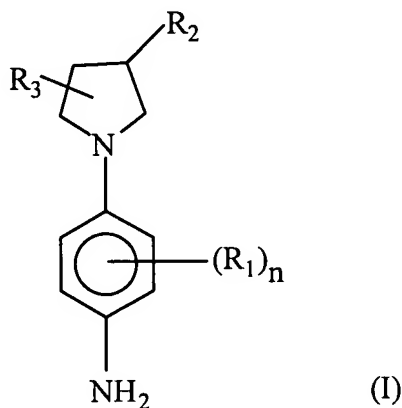


I. AMENDMENT

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A dye composition for dyeing keratin fibres, comprising, in a medium that is suitable for dyeing, at least one cationic tertiary para-phenylenediamine comprising a pyrrolidine nucleus that corresponds to formula (I):



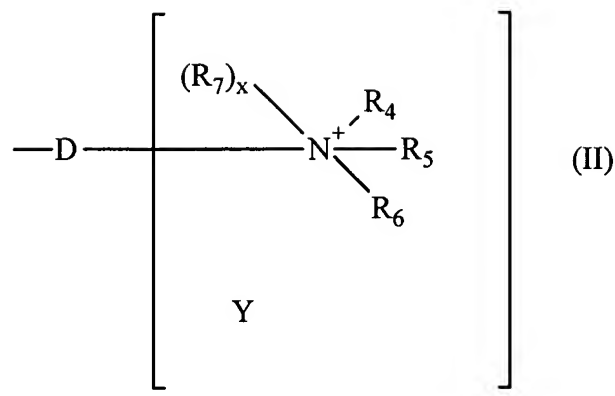
in which

n ranges from 0 to 4, it being understood that when n is greater than or equal to 2, then the radicals R₁ may be identical or different,

R₁ represents a chlorine, bromine, or C₁-C₄ alkyl, C₁-C₄ hydroxyalkyl, C₁-C₄ aminoalkyl, C₁-C₄ alkoxy or C₁-C₄ hydroxyalkoxy radical,

R₂ represents:

an onium radical Z corresponding to formula (II)



in which:

D is a single bond or a linear or branched C₁-C₁₄ alkylene chain which may contain one or more hetero atoms chosen from oxygen, sulphur and nitrogen, and which may be substituted with one or more hydroxyl, C₁-C₆ alkoxy or amino radicals, and which may bear one or more ketone functions;

R₄, R₅ and R₆, taken separately, represent a C₁-C₁₅ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ amidoalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a C₁-C₄ alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; or

R₄, R₅ and R₆ together, in pairs, form, with the nitrogen atom to which they are attached, a saturated 4-, 5-, 6- or 7-membered carbon-based ring optionally containing one or more hetero atoms, the cationic ring possibly being substituted with a halogen atom, a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a carboxyl radical, a (C₁-C₆)alkylcarbonyl radical, a thio (-SH) radical, a C₁-C₆ thioalkyl (-R-SH) radical, a (C₁-C₆)alkylthio radical, an amino radical, an amino radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical;

R₇ represents a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carboxyalkyl radical; a C₁-C₆ carbamylalkyl radical; a C₁-C₆ trifluoroalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl

radical; a C₁-C₆ sulphonamidoalkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylsulphiny(C₁-C₆)alkyl radical; a (C₁-C₆)alkylsulphonyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylsulphonamido(C₁-C₆)alkyl radical;

x is 0 or 1,

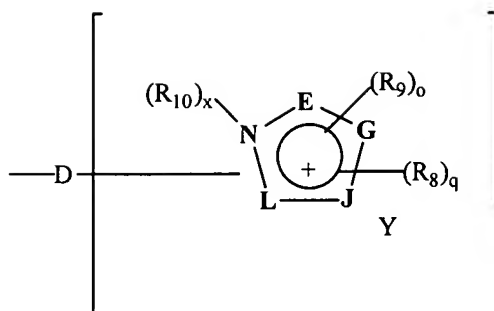
when x = 0, then the linker arm is attached to the nitrogen atom bearing the radicals R₄ to R₆,

when x = 1, then two of the radicals R₄ to R₆ form, together with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated ring and D is linked to a carbon atom of the saturated ring;

Y is a counterion;

a trialkylammonium radical;

onium radical Z corresponding to formula (III)



(III)

in which

D is a single bond or a linear or branched C₁-C₁₄ alkylene chain that may contain one or more hetero atoms chosen from oxygen, sulphur and nitrogen, and that may be substituted with one or more hydroxyl, C₁-C₆ alkoxy or amino radicals, and that may bear one or more ketone functions;

the ring members E, G, J and L, which may be identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a pyrrole, pyrazole, imidazole, triazole, oxazole, isoxazole, thiazole or isothiazole ring,

q is an integer between 0 and 4 inclusive;

o is an integer between 0 and 3 inclusive;

q+o is an integer between 0 and 4;

the radicals R₈, which may be identical or different, represent
a halogen atom, a hydroxyl radical, a C₁-C₆ alkyl
radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆
polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a
tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido
radical, a carboxyl radical, a C₁-C₆ alkylcarbonyl
radical, a thio radical, a C₁-C₆ thioalkyl radical, a (C₁-
C₆)alkylthio radical, an amino radical, an amino radical
mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-
C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl
radical; a C₁-C₆ monohydroxyalkyl radical or a C₂-C₆
polyhydroxyalkyl radical; it being understood that the
radicals R₈ are borne by a carbon atom,

the radicals R₉, which may be identical or different, represent
a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl
radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-
C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-
C₆)alkyl radical, a C₁-C₆ carbamylalkyl radical, a (C₁-
C₆)alkylcarboxy(C₁-C₆)alkyl radical or a benzyl
radical; it being understood that the radicals R₉ are
borne by a nitrogen atom,

R₁₀ represents a C₁-C₆ alkyl radical; a C₁-C₆ mono-
hydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl

radical; an aryl radical; a benzyl radical; a C₁-C₆
aminoalkyl radical, a C₁-C₆ aminoalkyl radical in
which the amine is substituted with a (C₁-C₆)alkyl, (C₁-
C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl
radical; a C₁-C₆ carboxyalkyl radical; a C₁-C₆
carbamylalkyl radical; a C₁-C₆ trifluoroalkyl radical; a
tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆
sulphonamidoalkyl radical; a (C₁-C₆)alkylcarboxy(C₁-
C₆)alkyl radical; a (C₁-C₆)alkylsulphiny(C₁-C₆)alkyl
radical; a (C₁-C₆)alkylsulphonyl(C₁-C₆)alkyl radical; a
(C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-
C₆)alkylcarbamyl(C₁-C₆)alkyl radical; an N-(C₁-
C₆)alkylsulphonamido(C₁-C₆)alkyl radical;

x is 0 or 1

when x = 0, the linker arm D is attached to the nitrogen
atom,

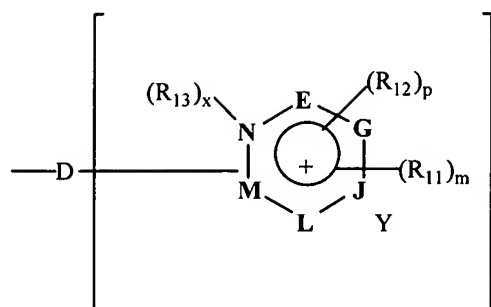
when x = 1, the linker arm D is attached to one of the
ring members E, G, J or L,

Y is a counterion,

wherein ring members E, G, J and L form an imidazole ring;

or

an onium radical Z corresponding to formula (IV)



(IV)

in which:

D is a single bond or a linear or branched C₁-C₁₄ alkylene chain which may contain one or more hetero atoms chosen from an oxygen, sulphur or nitrogen atom, and which may be substituted with one or more hydroxyl, C₁-C₆ alkoxy or amino radicals, and which may bear one or more ketone functions;

the ring members E, G, J, L and M, which may be identical or different, represent a carbon, oxygen, sulphur or nitrogen atom and form a ring chosen from pyridine, pyrimidine, pyrazine, triazine and pyridazine rings;

p is an integer between 0 and 3 inclusive;

m is an integer between 0 and 5 inclusive;

p+m is an integer between 0 and 5;

the radicals R₁₁, which may be identical or different, represent a halogen atom, a hydroxyl radical, a C₁-C₆

alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a carboxyl radical, a C₁-C₆ alkylcarbonyl radical, a thio radical, a C₁-C₆ thioalkyl radical, a (C₁-C₆)alkylthio radical, an amino radical, an amino radical substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ monohydroxyalkyl radical or a C₂-C₆ polyhydroxyalkyl radical; it being understood that the radicals R₁₁ are borne by a carbon atom,

the radicals R₁₂, which may be identical or different, represent a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical, a C₁-C₆ carbamyl-alkyl radical, a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical or a benzyl radical; it being understood that the radicals R₁₂ are borne by a nitrogen atom,

R₁₃ represents a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in

which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carboxyalkyl radical; a C₁-C₆ carbamylalkyl radical; a C₁-C₆ trifluoroalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ sulphonamidoalkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)-alkylsulphinyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylsulphonyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylsulphonamido(C₁-C₆)alkyl radical;

x is 0 or 1

when x = 0, the linker arm D is attached to the nitrogen atom,

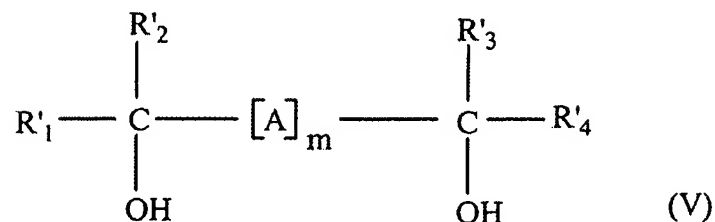
when x = 1, the linker arm D is attached to one of the ring members E, G, J, L or M,

Y is a counterion,

wherein the ring members E, G, J, L and M form with the ring nitrogen a ring chosen from pyridine and pyrimidine rings;

R₃ represents a hydrogen atom or a hydroxyl radical; and

at least one polyol which has a molecular weight of between 90 and 350 and corresponds to the formula V :



in which R'₁, R'₂, R'₃ and R'₄ denote independently of one another a hydrogen atom, a C₁-C₆ alk

yl radical or a C₁-C₆ mono- or polyhydroxyalkyl radical,

A denotes a linear or branched alkylene radical containing from 1 to 18 carbon atoms, this radical containing 0 to 9 oxygen atoms,

m denotes 0 or 1,

with the proviso that the total number of carbon atoms present in the radical A and in the entirety of substituents R'₁, R'₂, R'₃ and R'₄ is greater than or equal to 2;

wherein the polyol is further defined as:

a polyol of formula V for which m=0;

a polyethylene glycol; or

a polyol of formula V for which m=1 and R'₁, R'₂, R'₃ and R'₄

denote, independently of one another, a hydrogen atom or a

C₁-C₆ alkyl radical, and whose molecular weight is less than

200.

2. (Cancelled).
3. (Currently Amended) The composition of claim [[2]] 1, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 0.
4. (Currently Amended) The composition of claim [[2]] 1, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 1 and ~~R₁ is chosen from the group formed by a halogen atom; a C₁-C₆ aliphatic or alicyclic, saturated or unsaturated hydrocarbon based chain; one or more carbon atoms possibly being replaced with an oxygen, nitrogen, silicon or sulphur atom or with an SO₂ group, the radical R₁ not comprising a peroxide bond or diazo, nitro or nitroso radicals.~~
5. (Cancelled).
6. (Currently Amended) The composition of claim [[5]] 1, wherein the cationic tertiary para-phenylenediamine is such that R₁ is chosen from a methyl, hydroxymethyl, 2-hydroxyethyl, 1,2-dihydroxyethyl, methoxy, isopropoxy or 2-hydroxyethoxy radical.
7. (Cancelled).
8. (Currently Amended) The composition of claim [[7]] 1, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula II in which x is equal to 0 and R₄, R₅ and R₆, separately, are preferably chosen from a C₁-C₆ alkyl radical, a C₁-C₄ monohydroxyalkyl radical, a C₂-C₄ polyhydroxyalkyl radical, a (C₁-C₆)alkoxy(C₁-C₄)alkyl radical, a C₁-C₆ amidoalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, or R₄ and R₅ together form an azetidine, pyrrolidine, piperidine, piperazine or morpholine ring, R₆ being chosen in this case from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical;

a C₁-C₆ aminoalkyl radical, an aminoalkyl radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical.

9. (Currently Amended) The composition of claim [[7]] 1, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula II in which x is equal to 1 and R₇ is chosen from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; R₄ and R₅ together form an azetidine, pyrrolidine, piperidine, piperazine or morpholine ring, R₆ being chosen in this case from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical, a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical.

10. (Currently Amended) The composition of claim [[7]] 1, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula II and is such that D is a single bond or an alkylene chain that may be substituted.

11-13. (Cancelled).

14. (Currently Amended) The composition of claim 1[[2]], wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula III and is such that ~~is such that~~ x is equal to 0 and D is a single bond or an alkylene chain that may be substituted.

15-16. (Cancelled).

17. (Currently Amended) The composition of claim 1[[5]], in which the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula IV and is such that ~~is such that~~ x is equal to 0 and R₁₁ is chosen from a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a C₁-C₆ alkylcarbonyl radical, an amino radical, an amino radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ monohydroxyalkyl radical or a C₂-C₆ polyhydroxyalkyl radical, and R₁₂ is chosen from a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical or a C₁-C₆ carbamylalkyl radical.

18. (Currently Amended) The composition of claim 1[[5]], wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula IV and is such that ~~is such that~~ x is equal to 1 and R₁₃ is chosen from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical, a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl

radical; R₁₁ is chosen from a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a C₁-C₆ alkylcarbonyl radical, an amino radical, an amino radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; and R₁₂ is chosen from a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical and a C₁-C₆ carbamylalkyl radical.

19. (Currently Amended) The composition of claim 1[[5]], wherein the cationic tertiary para-phenylenediamine is such that R₁₁, R₁₂ and R₁₃ are alkyl radicals that may be substituted.

20. (Cancelled).

21. (Original) The composition of claim 1, wherein the cationic tertiary para-phenylenediamine is such that the radical R₂ is a guanidine radical of formula -X-C=NR₈-NR₉R₁₀, X represents an oxygen atom or a radical -NR₁₁, R₈, R₉, R₁₀ and R₁₁ representing a hydrogen, a C₁-C₄ alkyl radical or a hydroxyalkyl radical.

22. (Original) The composition of claim 1, wherein the cationic tertiary para-phenylenediamine is chosen from the group formed by:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium
bromide;

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium
chloride;

N-[1-(4-Aminophenyl)pyrrolidin-3-yl] guanidinium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl(3-trimethylsilanyl-
propyl)ammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](trimethylammonium-
hexyl)dimethylammonium dichloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-trimethylammonium
chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methyl-
pyrrolidinium chloride

3-{3-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-
imidazol-1-ium chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium
chloride

3-{3-[1-(5-Trimethylsilanylethyl-4-amino-3-
trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-
3H-imidazol-1-ium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium
chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetra-
decylammonium chloride;

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethyl-
guanidinium chloride;

N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl] guanidinium chloride;

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-
ium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl](2-hydroxyethyl)-
dimethylammonium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl(3-
trimethylsilylpropyl ammonium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl](trimethyl-
ammoniumhexyl)dimethylammonium dichloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-
trimethylammonium chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methyl-
pyrrolidinium chloride

3-{3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-
3H-imidazol-1-ium chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-
methylpiperidinium chloride

[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-
trimethylammonium chloride

3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-
3H-imidazol-1-ium chloride

3-{3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-
yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride

[1-(5-Trimethylsilanylethyl-4-amino-3-trimethylsilanylethyl-
phenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanyl-
ethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

1'-(4-Aminophenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride;

1'-(4-Amino-3-methylphenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium
chloride;

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl- 3H-
imidazol-1-ium chloride;

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl- 3H-
imidazol-1-ium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)- 3H-imidazol-1-ium chloride;

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium bromide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium methosulphate;

[1-(4-Aminophenyl)pyrrolidin-3-yl]butyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]pentyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]heptyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]octyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]decyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexadecyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyltrimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium
iodide.

23. (Original) The composition of claim 1, wherein the cationic tertiary para-phenylenediamine
is chosen from the group formed by:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium
bromide;

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium
chloride;

N-[1-(4-Aminophenyl)pyrrolidin-3-yl] guanidinium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl(3-trimethylsilanyl-
propyl)ammonium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium
chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetra-
decylammonium chloride;

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethyl-
 guanidinium chloride;
 N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl] guanidinium chloride;
 3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-
 ium chloride;
 [1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl](2-
 hydroxyethyl)dimethylammonium chloride;
 [1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl(3-
 trimethylsilylpropyl)ammonium chloride;
 1'-(4-Aminophenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride;
 1'-(4-Amino-3-methylphenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium
 chloride;
 3-{[1-(4-Aminophenyl)pyrrolidin-3-yl]carbonyl}methyl-1-methyl-3H-
 imidazol-1-ium chloride;
 3-{[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]carbonyl}methyl-1-
 methyl-3H-imidazol-1-ium chloride;
 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilylpropyl)-3H-
 imidazol-1-ium chloride;
 3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethyl-
 silylpropyl)-3H-imidazol-1-ium chloride;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]ethyl dimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyl dimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]propyl dimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]propyl dimethylammonium bromide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]propyl dimethylammonium
 methosulphate;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]butyl dimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]pentyl dimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]hexyl dimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]heptyl dimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]octyl dimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]decyl dimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]hexadecyl dimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyl dimethylammonium
 chloride;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyl dimethylammonium
 iodide.

24. (Original) The composition of claim 1, wherein the cationic tertiary para-phenylenediamine is chosen from the group formed by:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium
bromide;

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium
chloride;

N-[1-(4-Aminophenyl)pyrrolidin-3-yl] guanidinium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl(3-trimethylsilanyl-
propyl)ammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](trimethylammonium-
hexyl)dimethylammonium dichloride;

1'-(4-Aminophenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)- 3H-
imidazol-1-ium chloride;

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-
trimethylsilanylpropyl)-3H-imidazol-1-ium chloride;

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyl dimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyl dimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyl dimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium
methosulphate;

[1-(4-Aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium
iodide.

25. (Original) The composition of claim 1, wherein the cationic tertiary para-phenylenediamine is chosen from the group formed by:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium chloride;

1'-(4-Aminophenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride.

26. (Original) The composition of claim 1, wherein the cationic tertiary para-phenylenediamine is chosen from:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride and [1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethylammonium chloride.

27. (Cancelled).

28. (Currently Amended) The composition of claim [[27]] 1, wherein the polyol is selected from pinacol (2,3-dimethyl-2,3-butanediol), 1,2,3-butanetriol, 2,3-butanediol and sorbitol.

29-31. (Cancelled).

32. (Currently Amended) The composition of claim [[31]] 1, wherein the polyol is selected from 3-methyl-1,3,5-pentanetriol, 1,2,4-butanetriol, 1,5-pentanediol, 2-methyl-1,3-propanediol, 1,3-butanediol, 3-methyl-1,5-pentanediol, neopentyl glycol (2,2-dimethyl-1,3-propanediol), isoprene glycol (3-methyl-1,3-butanediol) and hexylene glycol (2-methyl-2,4-pentanediol).

33. (Original) The composition of claim 32, wherein the polyol is selected from hexylene glycol, neopentyl glycol and 3-methyl-1,5-pentanediol.

34. (Currently Amended) The composition of claim 1, wherein the cationic tertiary para-phenylenediamine(s) containing a pyrrolidine nucleus represent(s) from 0.001% to 10% ~~and preferably from 0.005% to 6%~~ by weight relative to the total weight of the composition.
35. (Currently Amended) The composition of claim 1, wherein the polyol of formula V represent from 0.1% to 40% ~~and preferably from 0.5% to 30% and more preferably still from 1% to 20%~~ by weight relative to the total weight of the composition.
36. (Original) The composition of claim 1, wherein the composition further comprises at least one cationic polymer.
37. (Original) The composition of claim 1, wherein the composition further comprises at least one thickening polymer.
38. (Original) The composition of claim 1, wherein the composition further comprises at least one surfactant chosen from the group formed by anionic surfactants, amphoteric or zwitterionic surfactants, nonionic surfactants and cationic surfactants.
39. (Original) The composition of claim 1, wherein the composition further comprises at least one additional oxidation base other than cationic tertiary para-phenylenediamines containing a pyrrolidine nucleus, chosen from para-phenylenediamines, bis(phenyl)alkylenediamines, para-aminophenols, ortho-aminophenols and heterocyclic bases, and the addition salts thereof.
40. (Currently Amended) The composition of claim 39, wherein the additional oxidation base(s) is (are) present in an amount ranging from 0.001% to 20% by weight ~~and preferably from 0.005% to 6% by weight~~ relative to the total weight of the composition.

41. (Original) The composition of claim 1, wherein the composition further comprises at least one coupler chosen from meta-phenylenediamines, meta-aminophenols, meta-diphenols, naphthalene-based couplers and heterocyclic couplers, and the addition salts thereof.

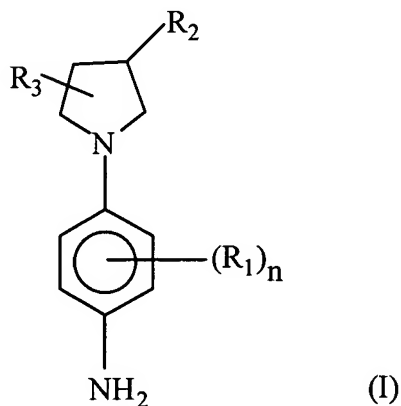
42. (Original) The composition of claim 41, wherein the coupler is chosen from 1,3-dihydroxybenzene, 1,3-dihydroxy-2-methylbenzene, 4-chloro-1,3-dihydroxybenzene, 2,4-diamino-1-(β -hydroxyethyloxy)benzene, 2-amino-4-(β -hydroxyethylamino)-1-methoxybenzene, 1,3-diaminobenzene, 1,3-bis(2,4-diaminophenoxy)propane, 3-ureidoaniline, 3-ureido-1-dimethylaminobenzene, sesamol, 1- β -hydroxyethylamino-3,4-methylenedioxybenzene, α -naphthol, 2-methyl-1-naphthol, 6-hydroxyindole, 4-hydroxyindole, 4-hydroxy-N-methylindole, 2-amino-3-hydroxypyridine, 6-hydroxybenzomorpholine, 3,5-diamino-2,6-dimethoxypyridine, 1-N-(β -hydroxyethyl)amino-3,4-methylenedioxybenzene and 2,6-bis(β -hydroxyethylamino)toluene, and the addition salts thereof.

43. (Currently Amended) The composition of claim 41, wherein the coupler(s) is (are) present in an amount of between 0.001% and 20% ~~and preferably between 0.005% and 6%~~ by weight relative to the total weight of the composition.

44. (Original) The composition of claim 1, wherein the composition further comprises at least one direct dye.

45. (Original) The composition of claim 1, wherein the composition further comprises at least one hydroxylated solvent such as ethanol, propylene glycol, glycerol and polyol monoethers.

46. (Currently Amended) The composition of claim 1, wherein the composition further comprises an oxidizing agent chosen from hydrogen peroxide, urea peroxide, alkali metal bromates, persalts, peracids and oxydase enzymes; ~~preferably it is hydrogen peroxide.~~
47. (Original) A process for the oxidation dyeing of keratin fibres, wherein a dye composition as defined in claim 1 is applied to the fibres in the presence of an oxidizing agent.
48. (Original) A multi-compartment device, in which a first compartment contains a dye composition as defined in claim 1, and a second compartment contains an oxidizing agent.
49. (New) A dye composition for dyeing keratin fibres, comprising, in a medium that is suitable for dyeing, at least one cationic tertiary para-phenylenediamine comprising a pyrrolidine nucleus that corresponds to formula (I):



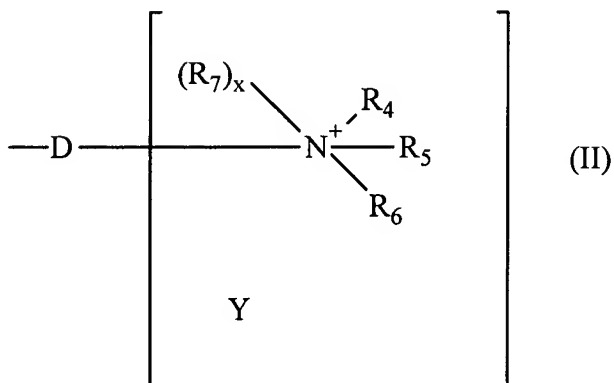
in which

n ranges from 0 to 4, it being understood that when n is greater than or equal to 2, then the radicals R_1 may be identical or different,

R_1 represents a chlorine, bromine, or C_1 - C_4 alkyl, C_1 - C_4 hydroxyalkyl, C_1 - C_4 aminoalkyl, C_1 - C_4 alkoxy or C_1 - C_4 hydroxyalkoxy radical,

R_2 represents:

an onium radical Z corresponding to formula (II)



in which:

D is a single bond or a linear or branched C₁-C₁₄ alkylene chain which may contain one or more hetero atoms chosen from oxygen, sulphur and nitrogen, and which may be substituted with one or more hydroxyl, C₁-C₆ alkoxy or amino radicals, and which may bear one or more ketone functions;

R₄, R₅ and R₆, taken separately, represent a C₁-C₁₅ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ amidoalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted

with a C₁-C₄ alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; or

R₄, R₅ and R₆ together, in pairs, form, with the nitrogen atom to which they are attached, a saturated 4-, 5-, 6- or 7-membered carbon-based ring optionally containing one or more hetero atoms, the cationic ring possibly being substituted with a halogen atom, a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a carboxyl radical, a (C₁-C₆)alkylcarbonyl radical, a thio (-SH) radical, a C₁-C₆ thioalkyl (-R-SH) radical, a (C₁-C₆)alkylthio radical, an amino radical, an amino radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical;

R₇ represents a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carboxyalkyl

radical; a C₁-C₆ carbamylalkyl radical; a C₁-C₆ tri-fluoroalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ sulphonamidoalkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)-alkylsulphinyl(C₁-C₆)alkyl radical; a (C₁-C₆)-alkylsulphonyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkyl-carbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkyl-carbamyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkyl-sulphonamido(C₁-C₆)alkyl radical;

x is 0 or 1,

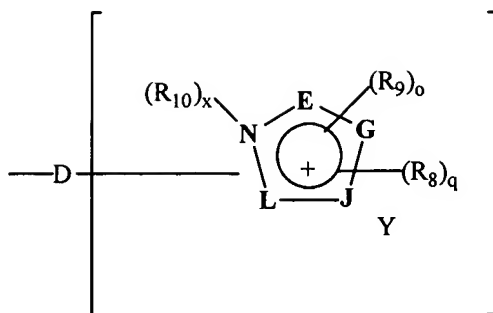
when x = 0, then the linker arm is attached to the nitrogen atom bearing the radicals R₄ to R₆,

when x = 1, then two of the radicals R₄ to R₆ form, together with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated ring and D is linked to a carbon atom of the saturated ring;

Y is a counterion;

a trialkylammonium radical;

onium radical Z corresponding to formula (III)



(III)

in which

D is a single bond or a linear or branched C_1 - C_{14} alkylene chain that may contain one or more hetero atoms chosen from oxygen, sulphur and nitrogen, and that may be substituted with one or more hydroxyl, C_1 - C_6 alkoxy or amino radicals, and that may bear one or more ketone functions;

the ring members E, G, J and L, which may be identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a pyrrole, pyrazole, imidazole, triazole, oxazole, isoxazole, thiazole or isothiazole ring,

q is an integer between 0 and 4 inclusive;

o is an integer between 0 and 3 inclusive;

$q+o$ is an integer between 0 and 4;

the radicals R_8 , which may be identical or different, represent a halogen atom, a hydroxyl radical, a C_1 - C_6 alkyl radical, a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a C_1 - C_6 alkoxy radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1 - C_6 alkylcarbonyl radical, a thio radical, a C_1 - C_6 thioalkyl radical, a (C_1 - C_6)alkylthio radical, an amino radical, an amino radical mono- or disubstituted with a (C_1 - C_6)alkyl, (C_1 - C_6)alkylcarbonyl, amido or (C_1 - C_6)alkylsulphonyl radical; a C_1 - C_6 monohydroxyalkyl radical or a C_2 - C_6 polyhydroxyalkyl radical; it being understood that the radicals R_8 are borne by a carbon atom,

the radicals R_9 , which may be identical or different, represent a C_1 - C_6 alkyl radical, a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, a (C_1 - C_6)alkoxy(C_1 - C_6)alkyl radical, a C_1 - C_6 carbamylalkyl radical, a (C_1 - C_6)alkylcarboxy(C_1 - C_6)alkyl radical or a benzyl radical; it being understood that the radicals R_9 are borne by a nitrogen atom,

R_{10} represents a C_1 - C_6 alkyl radical; a C_1 - C_6 monohydroxyalkyl radical; a C_2 - C_6 polyhydroxyalkyl

radical; an aryl radical; a benzyl radical; a C₁-C₆ aminoalkyl radical, a C₁-C₆ aminoalkyl radical in which the amine is substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carboxyalkyl radical; a C₁-C₆ carbamylalkyl radical; a C₁-C₆ trifluoroalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ sulphonamidoalkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylsulphanyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylsulphonyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylsulphonamido(C₁-C₆)alkyl radical;

x is 0 or 1

when x = 0, the linker arm D is attached to the nitrogen atom,

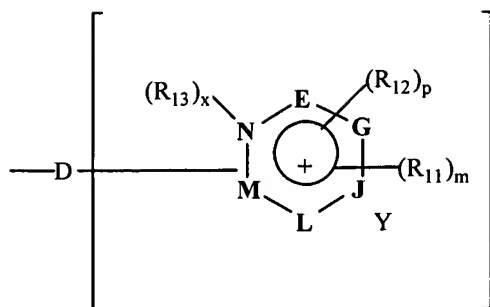
when x = 1, the linker arm D is attached to one of the ring members E, G, J or L,

Y is a counterion,

wherein ring members E, G, J and L form an imidazole ring;

or

an onium radical Z corresponding to formula (IV)



(IV)

in which:

D is a single bond or a linear or branched C₁-C₁₄ alkylene chain which may contain one or more hetero atoms chosen from an oxygen, sulphur or nitrogen atom, and which may be substituted with one or more hydroxyl, C₁-C₆ alkoxy or amino radicals, and which may bear one or more ketone functions;

the ring members E, G, J, L and M, which may be identical or different, represent a carbon, oxygen, sulphur or nitrogen atom and form a ring chosen from pyridine, pyrimidine, pyrazine, triazine and pyridazine rings;

p is an integer between 0 and 3 inclusive;

m is an integer between 0 and 5 inclusive;

p+m is an integer between 0 and 5;

the radicals R₁₁, which may be identical or different, represent a halogen atom, a hydroxyl radical, a C₁-C₆

alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a carboxyl radical, a C₁-C₆ alkylcarbonyl radical, a thio radical, a C₁-C₆ thioalkyl radical, a (C₁-C₆)alkylthio radical, an amino radical, an amino radical substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ monohydroxyalkyl radical or a C₂-C₆ polyhydroxyalkyl radical; it being understood that the radicals R₁₁ are borne by a carbon atom,

the radicals R₁₂, which may be identical or different, represent a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical, a C₁-C₆ carbamyl-alkyl radical, a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical or a benzyl radical; it being understood that the radicals R₁₂ are borne by a nitrogen atom,

R₁₃ represents a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in

which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carboxyalkyl radical; a C₁-C₆ carbamylalkyl radical; a C₁-C₆ trifluoroalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ sulphonamidoalkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)-alkylsulphinyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylsulphonyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylsulphonamido(C₁-C₆)alkyl radical;

x is 0 or 1

when x = 0, the linker arm D is attached to the nitrogen atom,

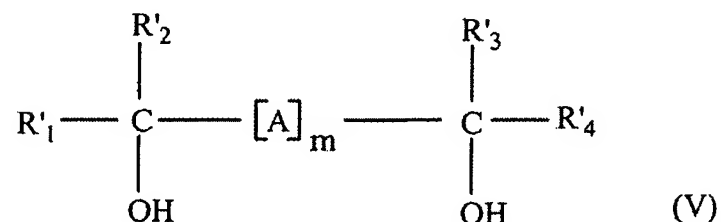
when x = 1, the linker arm D is attached to one of the ring members E, G, J, L or M,

Y is a counterion,

wherein the ring members E, G, J, L and M form with the ring nitrogen a ring chosen from pyridine and pyrimidine rings;

R₃ represents a hydrogen atom or a hydroxyl radical; and

at least one polyol which has a molecular weight of between 90 and 350 and corresponds to the formula V :



in which R'₁, R'₂, R'₃ and R'₄ denote independently of one another a hydrogen atom, a C₁-C₆ alkyl radical or a C₁-C₆ mono- or polyhydroxyalkyl radical,

A denotes a linear or branched alkylene radical containing from 1 to 18 carbon atoms, this radical containing 0 to 9 oxygen atoms,

m denotes 0 or 1,

with the proviso that the total number of carbon atoms present in the radical A and in the entirety of substituents R'₁, R'₂, R'₃ and R'₄ is greater than or equal to 2;

wherein the polyol is further defined as: pinacol (2,3-dimethyl-2,3-butanediol), 1,2,3-butanetriol, 2,3-butanediol, sorbitol, a polyethylene glycol, 3-methyl-1,3,5-pentanetriol, 1,2,4-butanetriol, 1,5-pentanediol, 2-methyl-1,3-propanediol, 1,3-butanediol, 3-methyl-1,5-pentanediol, neopentyl glycol (2,2-dimethyl-1,3-propanediol), isoprene glycol (3-methyl-1,3-butanediol), or hexylene glycol (2-methyl-2,4-pentanediol).

50. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 0.

51. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 1.

52. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is such that R₁ is chosen from a methyl, hydroxymethyl, 2-hydroxyethyl, 1,2-dihydroxyethyl, methoxy, isopropoxy or 2-hydroxyethoxy radical.

53. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula II in which x is equal to 0 and R₄, R₅ and R₆, separately, are chosen from a C₁-C₆ alkyl radical, a C₁-C₄ monohydroxyalkyl radical, a C₂-C₄ polyhydroxyalkyl radical, a (C₁-C₆)alkoxy(C₁-C₄)alkyl radical, a C₁-C₆ amidoalkyl radical, a tri(C₁-C₆)-alkylsilane(C₁-C₆)alkyl radical, or R₄ and R₅ together form an azetidine, pyrrolidine, piperidine, piperazine or morpholine ring, R₆ being chosen in this case from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical, an aminoalkyl radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical.

54. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula II in which x is equal to 1 and R₇ is chosen from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with

a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarboxy-(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; R₄ and R₅ together form an azetidine, pyrrolidine, piperidine, piperazine or morpholine ring, R₆ being chosen in this case from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical, a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical.

55. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula II and D is a single bond or an alkylene chain that may be substituted.

56. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula III and x is equal to 0 and D is a single bond or an alkylene chain that may be substituted.

57. (New) The composition of claim 49, in which the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula IV and x is equal to 0 and R₁₁ is chosen from a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a C₁-C₆ alkylcarbonyl radical, an amino radical, an amino radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆

monohydroxyalkyl radical or a C₂-C₆ polyhydroxyalkyl radical, and R₁₂ is chosen from a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical or a C₁-C₆ carbamylalkyl radical.

58. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula IV and x is equal to 1 and R₁₃ is chosen from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical, a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; R₁₁ is chosen from a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a C₁-C₆ alkylcarbonyl radical, an amino radical, an amino radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; and R₁₂ is chosen from a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical and a C₁-C₆ carbamylalkyl radical.

59. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is such that R₁₁, R₁₂ and R₁₃ are alkyl radicals that may be substituted.

60. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is such that the radical R₂ is a guanidine radical of formula -X-C=NR₈-NR₉R₁₀, X represents an

oxygen atom or a radical -NR₁₁, R₈, R₉, R₁₀ and R₁₁ representing a hydrogen, a C₁-C₄ alkyl radical or a hydroxyalkyl radical.

61. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is chosen from the group formed by:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium
bromide;

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium
chloride;

N-[1-(4-Aminophenyl)pyrrolidin-3-yl] guanidinium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl(3-trimethylsilyl-
propyl)ammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](trrimethylammonium-
hexyl)dimethylammonium dichloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-trimethylammonium
chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methyl-
pyrrolidinium chloride

3-{3-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-
imidazol-1-ium chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium
chloride

3-{3-[1-(5-Trimethylsilanylethyl-4-amino-3-
trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-
3H-imidazol-1-ium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium
chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetra-
decylammonium chloride;

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethyl-
guanidinium chloride;

N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl] guanidinium chloride;

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-
ium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl](2-hydroxyethyl)-
dimethylammonium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl(3-trimethylsilanylpropyl ammonium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl](trimethylammoniumhexyl)dimethylammonium dichloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-trimethylammonium chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride

3-{3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride

[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-trimethylammonium chloride

3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

3-{3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride

[1-(5-Trimethylsilanylethyl-4-amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanyl-ethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

1'-(4-Aminophenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride;

1'-(4-Amino-3-methylphenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride;

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl- 3H-imidazol-1-ium chloride;

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl- 3H-imidazol-1-ium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)- 3H-imidazol-1-ium chloride;

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate;

[1-(4-Aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium
 chloride;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium
 iodide.

62. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is chosen from the group formed by:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium
 bromide;
 N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium
 chloride;
 N-[1-(4-Aminophenyl)pyrrolidin-3-yl] guanidinium chloride;
 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
 chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl(3-trimethylsilanylpropyl)ammonium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetradecylammonium chloride;

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride;

N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl] guanidinium chloride;

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethylammonium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl(3-trimethylsilanylpropyl)ammonium chloride;

1'-(4-Aminophenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride;

1'-(4-Amino-3-methylphenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride;

3-{{1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl}methyl}-1-methyl-3H-imidazol-1-ium chloride;

3-{{1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl}methyl}-1-methyl-3H-imidazol-1-ium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride;

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate;

[1-(4-Aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium
iodide.

24. The composition of claim 1, wherein the cationic tertiary para-phenylenediamine is
chosen from the group formed by:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium
bromide;

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium
chloride;

N-[1-(4-Aminophenyl)pyrrolidin-3-yl] guanidinium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl(3-trimethylsilanyl-
propyl)ammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](trimethylammonium-
hexyl)dimethylammonium dichloride;

1'-(4-Aminophenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)- 3H-imidazol-1-ium chloride;

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride;

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium bromide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium methanesulphate;

[1-(4-Aminophenyl)pyrrolidin-3-yl]butyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]pentyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]heptyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]octyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]decyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexadecyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyltrimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyl dimethyl ammonium iodide.

63. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is chosen from the group formed by:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethyl ammonium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium chloride;

1'-(4-Aminophenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride.

64. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine is chosen from:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethyl ammonium chloride and [1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium chloride.

65. (New) The composition of claim 49, wherein the cationic tertiary para-phenylenediamine(s) containing a pyrrolidine nucleus represent(s) from 0.001% to 10% by weight relative to the total weight of the composition.

66. (New) The composition of claim 49, wherein the polyol of formula V represent from 0.1% to 40% by weight relative to the total weight of the composition.

67. (New) The composition of claim 49, wherein the composition further comprises at least one cationic polymer.

68. (New) The composition of claim 49, wherein the composition further comprises at least one thickening polymer.

69. (New) The composition of claim 49, wherein the composition further comprises at least one surfactant chosen from the group formed by anionic surfactants, amphoteric or zwitterionic surfactants, nonionic surfactants and cationic surfactants.

70. (New) The composition of claim 49, wherein the composition further comprises at least one additional oxidation base other than cationic tertiary para-phenylenediamines containing a pyrrolidine nucleus, chosen from para-phenylenediamines, bis(phenyl)alkylenediamines, para-aminophenols, ortho-aminophenols and heterocyclic bases, and the addition salts thereof.

71. (New) The composition of claim 70, wherein the additional oxidation base(s) is (are) present in an amount ranging from 0.001% to 20% by weight relative to the total weight of the composition.

72. (New) The composition of claim 49, wherein the composition further comprises at least one coupler chosen from meta-phenylenediamines, meta-aminophenols, meta-diphenols, naphthalene-based couplers and heterocyclic couplers, and the addition salts thereof.

73. (New) The composition of claim 72, wherein the coupler is chosen from 1,3-dihydroxybenzene, 1,3-dihydroxy-2-methylbenzene, 4-chloro-1,3-dihydroxybenzene, 2,4-diamino-1-(β -hydroxyethyloxy)benzene, 2-amino-4-(β -hydroxyethylamino)-1-methoxybenzene, 1,3-diaminobenzene, 1,3-bis(2,4-diaminophenoxy)propane, 3-ureidoaniline, 3-ureido-1-

dimethylaminobenzene, sesamol, 1- β -hydroxyethylamino-3,4-methylenedioxybenzene, α -naphthol, 2-methyl-1-naphthol, 6-hydroxyindole, 4-hydroxyindole, 4-hydroxy-N-methylindole, 2-amino-3-hydroxypyridine, 6-hydroxybenzomorpholine, 3,5-diamino-2,6-dimethoxypyridine, 1-N-(β -hydroxyethyl)amino-3,4-methylenedioxybenzene and 2,6-bis(β -hydroxyethylamino)toluene, and the addition salts thereof.

74. (New) The composition of claim 72, wherein the coupler(s) is (are) present in an amount of between 0.001% and 20% by weight relative to the total weight of the composition.

75. (New) The composition of claim 49, wherein the composition further comprises at least one direct dye.

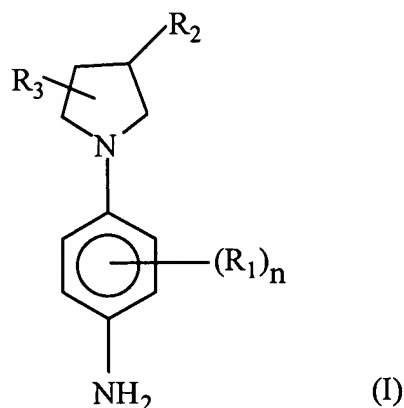
76. (New) The composition of claim 49, wherein the composition further comprises at least one hydroxylated solvent such as ethanol, propylene glycol, glycerol and polyol monoethers.

77. (New) The composition of claim 49, wherein the composition further comprises an oxidizing agent chosen from hydrogen peroxide, urea peroxide, alkali metal bromates, persalts, peracids and oxydase enzymes.

78. (New) A process for the oxidation dyeing of keratin fibres, wherein a dye composition as defined in claim 49 is applied to the fibres in the presence of an oxidizing agent.

79. (New) A multi-compartment device, in which a first compartment contains a dye composition as defined in claim 49, and a second compartment contains an oxidizing agent.

80. (New) A dye composition for dyeing keratin fibres, comprising, in a medium that is suitable for dyeing, at least one cationic tertiary para-phenylenediamine comprising a pyrrolidine nucleus that corresponds to formula (I):



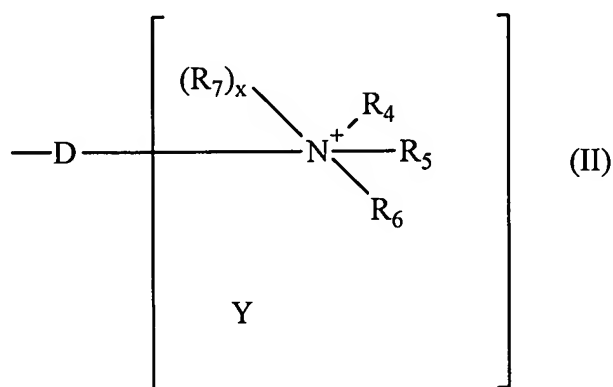
in which

n ranges from 0 to 4, it being understood that when n is greater than or equal to 2, then the radicals R_1 may be identical or different,

R_1 represents a chlorine, bromine, or C_1 - C_4 alkyl, C_1 - C_4 hydroxyalkyl, C_1 - C_4 aminoalkyl, C_1 - C_4 alkoxy or C_1 - C_4 hydroxyalkoxy radical,

R_2 represents:

an onium radical Z corresponding to formula (II)



in which:

D is a single bond or a linear or branched C₁-C₁₄ alkylene chain which may contain one or more hetero atoms chosen from oxygen, sulphur and nitrogen, and which may be substituted with one or more hydroxyl, C₁-C₆ alkoxy or amino radicals, and which may bear one or more ketone functions;

R₄, R₅ and R₆, taken separately, represent a C₁-C₁₅ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ amidoalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a C₁-C₄ alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; or

R₄, R₅ and R₆ together, in pairs, form, with the nitrogen atom to which they are attached, a saturated 4-, 5-, 6- or 7-membered carbon-based ring optionally containing one or more hetero atoms, the cationic ring possibly being substituted with a halogen atom, a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy

radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a carboxyl radical, a (C₁-C₆)alkylcarbonyl radical, a thio (-SH) radical, a C₁-C₆ thioalkyl (-R-SH) radical, a (C₁-C₆)alkylthio radical, an amino radical, an amino radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical;

R₇ represents a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carboxyalkyl radical; a C₁-C₆ carbamylalkyl radical; a C₁-C₆ trifluoroalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a C₁-C₆ sulphonamidoalkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)-alkylsulphinyl(C₁-C₆)alkyl radical; a (C₁-C₆)-alkylsulphonyl(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylsulphonamido(C₁-C₆)alkyl radical;

x is 0 or 1,

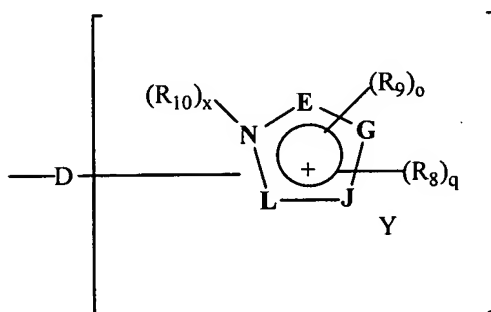
when $x = 0$, then the linker arm is attached to the nitrogen atom bearing the radicals R_4 to R_6 ,

when $x = 1$, then two of the radicals R_4 to R_6 form, together with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated ring and D is linked to a carbon atom of the saturated ring;

Y is a counterion;

a trialkylammonium radical;

onium radical Z corresponding to formula (III)



(III)

in which

D is a single bond or a linear or branched C_1 - C_{14} alkylene chain that may contain one or more hetero atoms chosen from oxygen, sulphur and nitrogen, and that may be substituted with one or more hydroxyl, C_1 - C_6

alkoxy or amino radicals, and that may bear one or more ketone functions;

the ring members E, G, J and L, which may be identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a pyrrole, pyrazole, imidazole, triazole, oxazole, isoxazole, thiazole or isothiazole ring,

q is an integer between 0 and 4 inclusive;

o is an integer between 0 and 3 inclusive;

q+o is an integer between 0 and 4;

the radicals R₈, which may be identical or different, represent a halogen atom, a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a carboxyl radical, a C₁-C₆ alkylcarbonyl radical, a thio radical, a C₁-C₆ thioalkyl radical, a (C₁-C₆)alkylthio radical, an amino radical, an amino radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ monohydroxyalkyl radical or a C₂-C₆

polyhydroxyalkyl radical; it being understood that the radicals R_8 are borne by a carbon atom,

the radicals R_9 , which may be identical or different, represent a C_1 - C_6 alkyl radical, a C_1 - C_6 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, a (C_1 - C_6)alkoxy(C_1 - C_6)alkyl radical, a C_1 - C_6 carbamylalkyl radical, a (C_1 - C_6)alkylcarboxy(C_1 - C_6)alkyl radical or a benzyl radical; it being understood that the radicals R_9 are borne by a nitrogen atom,

R_{10} represents a C_1 - C_6 alkyl radical; a C_1 - C_6 monohydroxyalkyl radical; a C_2 - C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1 - C_6 aminoalkyl radical, a C_1 - C_6 aminoalkyl radical in which the amine is substituted with a (C_1 - C_6)alkyl, (C_1 - C_6)alkylcarbonyl, amido or (C_1 - C_6)alkylsulphonyl radical; a C_1 - C_6 carboxyalkyl radical; a C_1 - C_6 carbamylalkyl radical; a C_1 - C_6 trifluoroalkyl radical; a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical; a C_1 - C_6 sulphonamidoalkyl radical; a (C_1 - C_6)alkylcarboxy(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkylsulphinyl(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkylsulphonyl(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkylcarbonyl(C_1 - C_6)alkyl radical; an N-(C_1 -

C₆)alkylcarbamyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylsulphonamido(C₁-C₆)alkyl radical;

x is 0 or 1

when x = 0, the linker arm D is attached to the nitrogen atom,

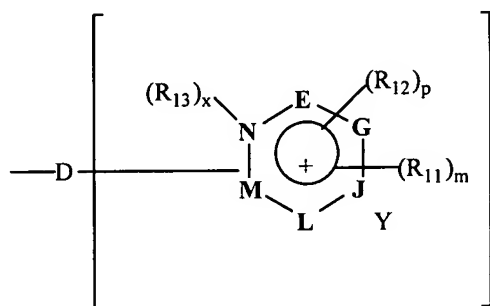
when x = 1, the linker arm D is attached to one of the ring members E, G, J or L,

Y is a counterion,

wherein ring members E, G, J and L form an imidazole ring;

or

an onium radical Z corresponding to formula (IV)



(IV)

in which:

D is a single bond or a linear or branched C₁-C₁₄ alkylene chain which may contain one or more hetero atoms chosen from an oxygen, sulphur or nitrogen atom, and which may be substituted with one or more hydroxyl,

C₁-C₆ alkoxy or amino radicals, and which may bear one or more ketone functions;

the ring members E, G, J, L and M, which may be identical or different, represent a carbon, oxygen, sulphur or nitrogen atom and form a ring chosen from pyridine, pyrimidine, pyrazine, triazine and pyridazine rings;

p is an integer between 0 and 3 inclusive;

m is an integer between 0 and 5 inclusive;

p+m is an integer between 0 and 5;

the radicals R₁₁, which may be identical or different, represent a halogen atom, a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a carboxyl radical, a C₁-C₆ alkylcarbonyl radical, a thio radical, a C₁-C₆ thioalkyl radical, a (C₁-C₆)alkylthio radical, an amino radical, an amino radical substituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ monohydroxyalkyl radical or a C₂-C₆ polyhydroxyalkyl radical; it being understood that the radicals R₁₁ are borne by a carbon atom,

the radicals R_{12} , which may be identical or different,
 represent a C_1 - C_6 alkyl radical, a C_1 - C_6
 monohydroxyalkyl radical, a C_2 - C_6 polyhydroxyalkyl
 radical, a tri(C_1 - C_6)alkylsilane(C_1 - C_6)alkyl radical, a
 (C_1 - C_6)alkoxy(C_1 - C_6)alkyl radical, a C_1 - C_6 carbamyl-
 alkyl radical, a (C_1 - C_6)alkylcarboxy(C_1 - C_6)alkyl
 radical or a benzyl radical; it being understood that the
 radicals R_{12} are borne by a nitrogen atom,

R_{13} represents a C_1 - C_6 alkyl radical; a C_1 - C_6 mono-
 hydroxyalkyl radical; a C_2 - C_6 polyhydroxyalkyl
 radical; an aryl radical; a benzyl radical; a C_1 - C_6
 aminoalkyl radical; a C_1 - C_6 aminoalkyl radical in
 which the amine is mono- or disubstituted with a (C_1 -
 C_6)alkyl, (C_1 - C_6)alkylcarbonyl, amido or (C_1 -
 C_6)alkylsulphonyl radical; a C_1 - C_6 carboxyalkyl
 radical; a C_1 - C_6 carbamylalkyl radical; a C_1 - C_6
 trifluoroalkyl radical; a tri(C_1 - C_6)alkylsilane(C_1 -
 C_6)alkyl radical; a C_1 - C_6 sulphonamidoalkyl radical; a
 (C_1 - C_6)alkylcarboxy(C_1 - C_6)alkyl radical; a (C_1 - C_6)-
 alkylsulphinyl(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkyl-
 sulphonyl(C_1 - C_6)alkyl radical; a (C_1 - C_6)alkyl-
 carbonyl(C_1 - C_6)alkyl radical; an N-(C_1 - C_6)alkyl-

carbamyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkyl-
sulphonamido(C₁-C₆)alkyl radical;

x is 0 or 1

when x = 0, the linker arm D is attached to the nitrogen
atom,

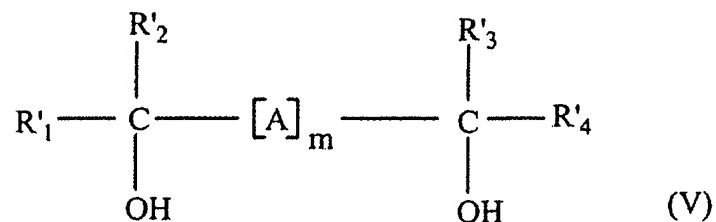
when x = 1, the linker arm D is attached to one of the
ring members E, G, J, L or M,

Y is a counterion,

wherein the ring members E, G, J, L and M form with the ring
nitrogen a ring chosen from pyridine and pyrimidine
rings;

R₃ represents a hydrogen atom or a hydroxyl radical; and

at least one polyol which has a molecular weight of between 90 and 350 and corresponds to the
formula V :



in which R'₁, R'₂, R'₃ and R'₄ denote independently of one another a
hydrogen atom, a C₁-C₆ alkyl radical or a C₁-C₆ mono- or
polyhydroxyalkyl radical,

A denotes a linear or branched alkylene radical containing from 1 to 18 carbon atoms, this radical containing 0 to 9 oxygen atoms, m denotes 0 or 1, with the proviso that the total number of carbon atoms present in the radical A and in the entirety of substituents R'₁, R'₂, R'₃ and R'₄ is greater than or equal to 2; wherein the polyol is further defined as: pinacol (2,3-dimethyl-2,3-butanediol), 1,2,3-butanetriol, 2,3-butanediol, sorbitol, a polyethylene glycol, hexylene glycol, neopentyl glycol, or 3-methyl-1,5-pentanediol.

81. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 0.

82. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 1.

83. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is such that R₁ is chosen from a methyl, hydroxymethyl, 2-hydroxyethyl, 1,2-dihydroxyethyl, methoxy, isopropoxy or 2-hydroxyethoxy radical.

84. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula II in which x is equal to 0 and R₄, R₅ and R₆, separately, are chosen from a C₁-C₆ alkyl radical, a C₁-C₄ monohydroxyalkyl radical, a C₂-C₄ polyhydroxyalkyl radical, a (C₁-C₆)alkoxy(C₁-C₄)alkyl radical, a C₁-C₆ amidoalkyl radical, a tri(C₁-C₆)-

alkylsilane(C₁-C₆)alkyl radical, or R₄ and R₅ together form an azetidine, pyrrolidine, piperidine, piperazine or morpholine ring, R₆ being chosen in this case from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical, an aminoalkyl radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical.

85. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula II in which x is equal to 1 and R₇ is chosen from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical; a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarboxy-(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; R₄ and R₅ together form an azetidine, pyrrolidine, piperidine, piperazine or morpholine ring, R₆ being chosen in this case from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical, a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarboxy(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical; an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical.

86. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula II and D is a single bond or an alkylene chain that may be substituted.

87. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula III and x is equal to 0 and D is a single bond or an alkylene chain that may be substituted.

88. (New) The composition of claim 80, in which the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula IV and x is equal to 0 and R₁₁ is chosen from a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a C₁-C₆ alkylcarbonyl radical, an amino radical, an amino radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ monohydroxyalkyl radical or a C₂-C₆ polyhydroxyalkyl radical, and R₁₂ is chosen from a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical or a C₁-C₆ carbamylalkyl radical.

89. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is such that R₂ corresponds to formula IV and x is equal to 1 and R₁₃ is chosen from a C₁-C₆ alkyl radical; a C₁-C₆ monohydroxyalkyl radical; a C₂-C₆ polyhydroxyalkyl radical; a C₁-C₆ aminoalkyl radical, a C₁-C₆ aminoalkyl radical in which the amine is mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; a C₁-C₆ carbamylalkyl radical; a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical; a (C₁-C₆)alkylcarbonyl(C₁-C₆)alkyl radical;

an N-(C₁-C₆)alkylcarbamyl(C₁-C₆)alkyl radical; R₁₁ is chosen from a hydroxyl radical, a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a C₁-C₆ alkoxy radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, an amido radical, a C₁-C₆ alkylcarbonyl radical, an amino radical, an amino radical mono- or disubstituted with a (C₁-C₆)alkyl, (C₁-C₆)alkylcarbonyl, amido or (C₁-C₆)alkylsulphonyl radical; and R₁₂ is chosen from a C₁-C₆ alkyl radical, a C₁-C₆ monohydroxyalkyl radical, a C₂-C₆ polyhydroxyalkyl radical, a tri(C₁-C₆)alkylsilane(C₁-C₆)alkyl radical, a (C₁-C₆)alkoxy(C₁-C₆)alkyl radical and a C₁-C₆ carbamylalkyl radical.

90. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is such that R₁₁, R₁₂ and R₁₃ are alkyl radicals that may be substituted.

91. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is such that the radical R₂ is a guanidine radical of formula -X-C=NR₈-NR₉R₁₀, X represents an oxygen atom or a radical -NR₁₁, R₈, R₉, R₁₀ and R₁₁ representing a hydrogen, a C₁-C₄ alkyl radical or a hydroxyalkyl radical.

92. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is chosen from the group formed by:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium
bromide;

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium
chloride;

N-[1-(4-Aminophenyl)pyrrolidin-3-yl] guanidinium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl(3-trimethylsilanyl-
propyl)ammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](trimethylammonium-
hexyl)dimethylammonium dichloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-trimethylammonium
chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methyl-
pyrrolidinium chloride

3-{3-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-
imidazol-1-ium chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium
chloride

3-{3-[1-(5-Trimethylsilanylethyl-4-amino-3-
trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-
3H-imidazol-1-ium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium
chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetra-
decylammonium chloride;

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethyl-
guanidinium chloride;

N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl] guanidinium chloride;

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-
ium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl](2-hydroxyethyl)-
dimethylammonium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl(3-
trimethylsilylpropyl ammonium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl](trimethyl-
ammoniumhexyl)dimethylammonium dichloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-
trimethylammonium chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methyl-
pyrrolidinium chloride

3-{3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride

[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-trimethylammonium chloride

3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

3-{3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride

[1-(5-Trimethylsilanylethyl-4-amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

1'-(4-Aminophenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride;

1'-(4-Amino-3-methylphenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride;

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride;

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)- 3H-imidazol-1-ium chloride;

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium bromide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium methosulphate;

[1-(4-Aminophenyl)pyrrolidin-3-yl]butyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]pentyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]heptyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]octyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]decyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexadecyltrimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyltrimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium
iodide.

93. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is
chosen from the group formed by:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium
bromide;

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium
chloride;

N-[1-(4-Aminophenyl)pyrrolidin-3-yl] guanidinium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl(3-trimethylsilanyl-
propyl)ammonium chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium
chloride;

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetra-
decylammonium chloride;

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethyl-
 guanidinium chloride;
 N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl] guanidinium chloride;
 3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-
 ium chloride;
 [1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl](2-
 hydroxyethyl)dimethylammonium chloride;
 [1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl(3-
 trimethylsilanylpropylammonium chloride;
 1'-(4-Aminophenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride;
 1'-(4-Amino-3-methylphenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium
 chloride;
 3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl- 3H-
 imidazol-1-ium chloride;
 3-{[1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-
 methyl-3H-imidazol-1-ium chloride;
 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-
 imidazol-1-ium chloride;
 3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethyl-
 silanylpropyl)-3H-imidazol-1-ium chloride;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]ethyl dimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyltrimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium bromide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]propyltrimethylammonium
 methosulphate;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]butyltrimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]pentyltrimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]hexyltrimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]heptyltrimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]octyltrimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]decyltrimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]hexadecyltrimethylammonium iodide;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyltrimethylammonium
 chloride;
 [1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyltrimethylammonium
 iodide.

24. The composition of claim 1, wherein the cationic tertiary para-phenylenediamine is chosen from the group formed by:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium
bromide;

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium
chloride;

N-[1-(4-Aminophenyl)pyrrolidin-3-yl] guanidinium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl(3-trimethylsilanyl-
propyl)ammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](trimethylammonium-
hexyl)dimethylammonium dichloride;

1'-(4-Aminophenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)- 3H-
imidazol-1-ium chloride;

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-
trimethylsilanylpropyl)-3H-imidazol-1-ium chloride;

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyl dimethylammonium chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]ethyl dimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyl dimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium
methosulphate;

[1-(4-Aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium
iodide.

94. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is chosen from the group formed by:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride;

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium
chloride;

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl ammonium chloride;

1'-(4-Aminophenyl)-1-methyl[1,3']bipyrrolidinyl-1-ium chloride.

95. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine is chosen from:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride and [1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethyl-ammonium chloride.

96. (New) The composition of claim 80, wherein the cationic tertiary para-phenylenediamine(s) containing a pyrrolidine nucleus represent(s) from 0.001% to 10% by weight relative to the total weight of the composition.

97. (New) The composition of claim 80, wherein the polyol of formula V represent from 0.1% to 40% by weight relative to the total weight of the composition.

98. (New) The composition of claim 80, wherein the composition further comprises at least one cationic polymer.

99. (New) The composition of claim 80, wherein the composition further comprises at least one thickening polymer.

100. (New) The composition of claim 80, wherein the composition further comprises at least one surfactant chosen from the group formed by anionic surfactants, amphoteric or zwitterionic surfactants, nonionic surfactants and cationic surfactants.

101. (New) The composition of claim 80, wherein the composition further comprises at least one additional oxidation base other than cationic tertiary para-phenylenediamines containing a pyrrolidine nucleus, chosen from para-phenylenediamines, bis(phenyl)alkylenediamines, para-aminophenols, ortho-aminophenols and heterocyclic bases, and the addition salts thereof.

102. (New) The composition of claim 101, wherein the additional oxidation base(s) is (are) present in an amount ranging from 0.001% to 20% by weight relative to the total weight of the composition.

103. (New) The composition of claim 80, wherein the composition further comprises at least one coupler chosen from meta-phenylenediamines, meta-aminophenols, meta-diphenols, naphthalene-based couplers and heterocyclic couplers, and the addition salts thereof.

104. (New) The composition of claim 103, wherein the coupler is chosen from 1,3-dihydroxybenzene, 1,3-dihydroxy-2-methylbenzene, 4-chloro-1,3-dihydroxybenzene, 2,4-diamino-1-(β -hydroxyethyloxy)benzene, 2-amino-4-(β -hydroxyethylamino)-1-methoxybenzene, 1,3-diaminobenzene, 1,3-bis(2,4-diaminophenoxy)propane, 3-ureidoaniline, 3-ureido-1-dimethylaminobenzene, sesamol, 1- β -hydroxyethylamino-3,4-methylenedioxybenzene, α -naphthol, 2-methyl-1-naphthol, 6-hydroxyindole, 4-hydroxyindole, 4-hydroxy-N-methylindole, 2-amino-3-hydroxypyridine, 6-hydroxybenzomorpholine, 3,5-diamino-2,6-dimethoxypyridine, 1-N-(β -hydroxyethyl)amino-3,4-methylenedioxybenzene and 2,6-bis(β -hydroxyethylamino)toluene, and the addition salts thereof.

105. (New) The composition of claim 103, wherein the coupler(s) is (are) present in an amount of between 0.001% and 20% by weight relative to the total weight of the composition.

106. (New) The composition of claim 80, wherein the composition further comprises at least one direct dye.

107. (New) The composition of claim 80, wherein the composition further comprises at least one hydroxylated solvent such as ethanol, propylene glycol, glycerol and polyol monoethers.

108. (New) The composition of claim 80, wherein the composition further comprises an oxidizing agent chosen from hydrogen peroxide, urea peroxide, alkali metal bromates, persalts, peracids and oxydase enzymes.

109. (New) A process for the oxidation dyeing of keratin fibres, wherein a dye composition as defined in claim 80 is applied to the fibres in the presence of an oxidizing agent.

110. (New) A multi-compartment device, in which a first compartment contains a dye composition as defined in claim 80, and a second compartment contains an oxidizing agent.